

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	54	((HIDEKI) near2 (YOSHIKAWA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 17:54
S2	47	((TAKASHI) near2 (AZUMA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 17:54
S3	41	((SHIN-ICHIRO) near2 (UMEMURA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 17:54
S4	8	((KEN-ICHI) near2 (KAWABATA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 17:54
S5	10	"5901708"	US-PGPUB; USPAT	OR	OFF	2009/05/20 17:54
S6	233	motion detect\$4 with extract\$4 estimation and transducer\$1 array \$1 and three dimension\$3 and construct\$4 and cross section\$4 image\$1	US-PGPUB; USPAT	AND	OFF	2009/05/20 17:59
S7	0	motion detect\$4 and extract\$4 estimation and transducer\$1 array \$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:03
S8	0	motion detect\$4 and extract\$4 estimat\$4 and transducer\$1 array \$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:04
S9	180	motion detect\$4 and transducer\$1 array\$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:04
S10	61	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:04
S11	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and biplane image \$1 and cross section\$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:12

S12	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and biplane image \$1 and cross section\$4	US-PGPUB; USPAT	AND	OFF	2009/05/20 18:13
S13	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and biplane image \$1 and cross section \$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:13
S14	4	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and biplane image \$1 and cross section \$4	US-PGPUB; USPAT	AND	OFF	2009/05/20 18:13
S15	253	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and cross section \$4	US-PGPUB; USPAT	AND	OFF	2009/05/20 18:13
S16	4	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and cross section \$4 and biplane	US-PGPUB; USPAT	AND	OFF	2009/05/20 18:14
S17	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and cross section \$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:14
S18	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit a	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:14

S19	0	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:14
S20	0	motion detect\$4 and transducer\$1 array\$1 and image extract\$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:14
S21	3	motion detect\$4 and transducer\$1 array\$1 and imag\$5 extract\$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 18:14
S22	21	motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1 and image extract\$4 unit and reconstruct\$4 unit and cross section \$4 and velocity estimator	US-PGPUB; USPAT	AND	OFF	2009/05/20 18:17
S23	0	"5,28009" "5,570,691" "5,622,174"	US-PGPUB; USPAT	AND	OFF	2009/05/20 19:58
S24	0	"528009" "5,570,691" "5,622,174"	US-PGPUB; USPAT	AND	OFF	2009/05/20 19:58
S25	0	"5228009" "5,570,691" "5,622,174"	US-PGPUB; USPAT	AND	OFF	2009/05/20 19:58
S26	129	"5228009" "5,570,691" "5,622,174"	US-PGPUB; USPAT	OR	OFF	2009/05/20 19:58
S27	104	"5,570,691" "5,622,174"	US-PGPUB; USPAT	OR	OFF	2009/05/20 19:58
S28	38	"5622174"	US-PGPUB; USPAT	OR	OFF	2009/05/20 19:59
S29	0	dual transducers alternat\$5 scan\$4 with biplane image\$1 and two scan\$5 surfaces	US-PGPUB; USPAT	AND	OFF	2009/05/20 21:08
S30	0	dual transducers scan \$4 with biplane image \$1 and two scan\$5 surfaces	US-PGPUB; USPAT	AND	OFF	2009/05/20 21:08
S31	5	first and second transducers scan\$4 with biplane image\$1 and two scan\$5 surfaces	US-PGPUB; USPAT	AND	OFF	2009/05/20 21:08
S32	1	therap\$5 transducer\$1 and motion detect\$4 device\$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/22 14:32

S33	22	therap\$5 transducer\$1 and motion detect\$4	US-PGPUB; USPAT	ADJ	OFF	2009/05/22 14:32
S34	1	600/439.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	ADJ	OFF	2009/05/22 15:43
S35	58	600/439.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	AND	OFF	2009/05/22 15:43
S36	105	600/454.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	AND	OFF	2009/05/22 15:43
S37	41	600/441.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	AND	OFF	2009/05/22 15:43
S38	17	600/456.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	AND	OFF	2009/05/22 15:43
S39	16	600/449.ccls. and motion detect\$4 and transducer\$1 array\$1 and blood vessel\$1	US-PGPUB; USPAT	AND	OFF	2009/05/22 15:43
S40	15041	motion detect\$4 extract\$4 estimat\$4 and detect\$4 three dimension\$4 motion within estimat\$4 region	US-PGPUB; USPAT	AND	OFF	2009/12/03 17:48
S41	1	motion detect\$4 extract\$4 estimat\$4 and detect\$4 three dimension\$4 motion within estimat\$4 region	US-PGPUB; USPAT	WITH	OFF	2009/12/03 17:48
S42	7	three dimension\$4 motion estimat\$4 region	US-PGPUB; USPAT	WITH	OFF	2009/12/03 17:49
S43	19	motion estimat\$4 and detect\$4 velocit\$4 and ultraso\$4 transducer \$1 and construct\$4 motion	US-PGPUB; USPAT	WITH	OFF	2009/12/03 17:51
S44	56	((HI DEKI) near2 (YOSHIKAWA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/03 17:58

S45	186	((HIDEKI) near2 (YOSHIKAWA)).INV.	EPO; JPO; DERWENT	OR	OFF	2009/12/03 17:58
S46	51	((TAKASHI) near2 (AZUMA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/03 17:59
S47	436	((TAKASHI) near2 (AZUMA)).INV.	EPO; JPO; DERWENT	OR	OFF	2009/12/03 17:59
S48	45	((SHIN-ICHIRO) near2 (UMEMURA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/03 17:59
S49	18	((SHIN-ICHIRO) near2 (UMEMURA)).INV.	EPO; JPO; DERWENT	OR	OFF	2009/12/03 17:59
S50	4	((KEN-ICHI) near2 (KAWABATA)).INV.	EPO; JPO; DERWENT	OR	OFF	2009/12/03 17:59
S51	4	((KEN-ICHI) near2 (KAWABATA)).INV.	EPO; JPO; DERWENT	OR	OFF	2009/12/03 17:59
S52	1	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1	US-PGPUB; USPAT	WITH	OFF	2009/12/03 18:27
S53	584	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/12/03 18:27
S54	1	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/12/03 18:27
S55	0	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and display three dimesnion\$1 motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/12/03 18:28
S56	539	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/12/03 18:29

S57	350	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/12/03 18:30
S58	316	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/12/03 18:32
S59	316	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:32
S60	0	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion	US-PGPUB; USPAT; USOCR	WITH	OFF	2009/12/03 18:32
S61	7	velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion and biplane image\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:33

S62	19	600/407-480.ccls. and velocit\$4 detect\$4 with transducer\$1 array\$1 and construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:40
S63	225	velocit\$4 detect\$4 with transducer\$1 array\$1 with construct \$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1 and estimat\$4 motion	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:42
S64	124	motion detect\$4 extract\$1 estimation and transducer\$1 array \$1 with construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and piezoelectric\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:45
S65	200	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and acquir\$4 imag\$4 with transducer array\$1 piezoelectric\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 18:59
S66	200	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and acquir\$4 imag\$4 with transducer array\$1 piezoelectric\$1 and motion detect\$4	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 19:00

S67	0	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and acquir\$4 imag\$4 with transducer array\$1 piezoelectric\$1 and motion detect\$4	US-PGPUB; USPAT; USOCR	WITH	OFF	2009/12/03 19:00
S68	0	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion	US-PGPUB; USPAT; USOCR	WITH	OFF	2009/12/03 19:00
S69	0	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and extract\$4 image\$1	US-PGPUB; USPAT; USOCR	WITH	OFF	2009/12/03 19:01
S70	3493	construct\$4 three dimension\$2 motion with two dimension\$2 image\$1 and displ\$6 three dimension\$1 motion and extract\$4 image\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2009/12/03 19:01
S71	27	"4604697"	US-PGPUB; USPAT	OR	OFF	2009/12/03 20:31
S72	12	"5349960"	US-PGPUB; USPAT	OR	OFF	2009/12/03 20:32
S73	21	"5769079"	US-PGPUB; USPAT	OR	OFF	2009/12/03 20:35
S74	69	"5435311"	US-PGPUB; USPAT	OR	OFF	2009/12/03 20:38
S75	12	display\$4 three dimension\$4 motion	US-PGPUB; USPAT	ADJ	OFF	2009/12/04 12:51
S76	0	display\$4 three dimension\$4 motion and detect\$4 motion within estimat\$4 region	US-PGPUB; USPAT	WITH	OFF	2009/12/04 12:54
S77	1	display\$4 three dimension\$4 motion and detect\$4 motion within estimat\$4 region	US-PGPUB; USPAT	WITH	OFF	2009/12/04 12:54



S78	2	display\$4 three dimension\$4 motion and detect\$4 motion with estimat\$4 region	US-PGPUB; USPAT	WITH	OFF	2009/12/04 12:54
S79	62	display\$4 three dimension\$4 motion and detect\$4 and estimat\$4 motion	US-PGPUB; USPAT	WITH	OFF	2009/12/04 12:55
S80	8	"6679847"	US-PGPUB; USPAT	OR	OFF	2009/12/04 15:09
S81	21	"5769079"	US-PGPUB; USPAT	OR	OFF	2009/12/04 15:09
S82	1468	three dimension\$4 motion based two dimension\$4 imag\$3 acquir\$4 with first and second transducer\$1	US-PGPUB; USPAT	AND	OFF	2010/06/04 20:26
S83	735	three dimension\$4 motion based with two dimension\$4 imag\$3 acquir\$4 with first and second transducer\$1	US-PGPUB; USPAT	AND	OFF	2010/06/04 20:26
S84	174	"600".clas. and three dimension\$4 motion based with two dimension\$4 imag\$3 acquir\$4 with first and second transducer\$1	US-PGPUB; USPAT	AND	OFF	2010/06/04 20:26
S85	3	transducer\$1 alternat\$4 transmit\$4 and receiv\$4 with acquir\$4 biplane image\$1 and construct\$4 three dimension\$4 motion with two dimension\$4 imag\$3 acquir\$4 with transducer\$1	US-PGPUB; USPAT	AND	OFF	2010/06/04 20:39
S86	46	determin\$4 velocit\$4 with three dimensional motion	US-PGPUB; USPAT	WITH	OFF	2010/06/05 11:57
S87	8	"600".clas. and determin\$4 velocit\$4 with three dimensional motion	US-PGPUB; USPAT	WITH	OFF	2010/06/05 12:02
S88	430	"600".clas. and determin\$4 velocit\$4 with three dimensional motion	US-PGPUB; USPAT	AND	OFF	2010/06/05 12:02

S89	1602	determin\$4 velocit\$4 with three dimensional motion and extract\$4	US-PGPUB; USPAT	AND	OFF	2010/06/05 19:55
S90	1166	estimat\$4 velocit\$4 with three dimensional motion and extract\$4	US-PGPUB; USPAT	AND	OFF	2010/06/05 19:56
S91	9	estimat\$4 velocit\$4 with three dimensional motion and extract\$4	US-PGPUB; USPAT	WITH	OFF	2010/06/05 19:56
S92	1	"10583033"	US-PGPUB; USPAT	OR	OFF	2010/11/19 19:42
S93	342	velocit\$4 with three dimension\$3 motion and object position\$4 intersect\$4 two-dimension\$4 cross section image	US-PGPUB; USPAT	AND	OFF	2010/11/19 20:07
S94	0	velocit\$4 with three dimension\$3 motion and object position\$4 intersect\$4 two-dimension\$4 cross section image	US-PGPUB; USPAT	WITH	OFF	2010/11/19 20:07
S95	0	transducers intersect \$4 and display\$4 biplane image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/11/20 11:25
S96	1	transducers and display\$4 biplane image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/11/20 11:25
S97	0	transducers overlap\$4 and biplane image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/11/20 11:26
S98	4	transducers intersect \$4 and display\$4 biplane image\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2010/11/20 11:26

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